




Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		DOCKET NUMBER: 12243.23.US-WO      Application Number: 10/018,869	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT(S): James Rini et al	
		FILING DATE: December 18, 2001	GROUP ART UNIT
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)			
6.		Brunger, A. T., et al (1998). Crystallography & NMR system: A new software suite for macromolecular structure determination. Acta Crystallographica D54, 905-21	
7.		Campbell, J. A., et al (1998). A classification of nucleotide-diphospho-sugar glycosyltransferases based on amino acid sequence similarities. Biochem J 329, 719	
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9.	✓	Charnock, S. J., et al (1999). Structure of the nucleotide-diphospho-sugar transferase, SpsA from Bacillus subtilis, in native and nucleotide-complexed forms. Biochemistry 38, 6380-5	
10.	✓	Charuk, J. H., et al (1995). Carbohydrate-deficient glycoprotein syndrome type II. An autosomal recessive N-acetylglucosaminyltransferase II deficiency different from typical hereditary erythroblastic multinuclearity, with a positive acidified-serum lysis test (HEMPAS). Eur J Biochem 230, 797-805	
11.	✓	Christopher, J. A. (1998). SPOCK: The Structural Properties Observation and Calculation Kit Program Manual. In SPOCK: The Structural Properties Observation and Calculation Kit Program Manual: The Center for Macromolecular Design, Texas A&M University, College Station, TX	
12.	✓	Cowan, J. A. (1998). Magnesium activation of nuclease enzymes -- the importance of water. Inorganica Chimica Acta 275-276, 24-7	
13.	✓	Cowtan, K. (1994). Joint CCP4 and ESF-EACBM Newsletter on Protein Crystallography 31, 34-38	
14.	✓	Drickamer, K., and Taylor, M. E. (1998). Evolving views of protein glycosylation. Trends Biochem Sci 23, 321-4	
15.		Dudev, T., et al (1999). Competitive Binding in Magnesium Coordination Chemistry: Water versus Ligands of Biological Interest. J Am Chem Soc 121, 7665-73.	
16.		Gastinel, L. N., et al (1999). Crystal structures of the bovine beta4galactosyltransferase catalytic domain and its complex with uridine diphosphogalactose. Embo J 18, 3546-57	
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18.		Harpaz, N., et al (1980). Control of glycoprotein synthesis. Bovine colostrum UDP-N- acetylglucosamine:alpha-D-mannoside beta 2-N- acetylglucosaminyltransferase I. Separation from UDP-N- acetylglucosamine:alpha-D-mannoside beta 2-N- acetylglucosaminyltransferase II, partial purification, and substrate specificity. J Biol Chem 255, 4885-93	
19.		Ioffe, E., et al (1994). Mice lacking N-acetylglucosaminyltransferase I activity die at mid- gestation, revealing an essential role for complex or hybrid N-linked carbohydrates. Proc Natl Acad Sci U S A 91, 728-32	
20.	✓	Jaeken, J., et al (1993). The carbohydrate-deficient glycoprotein syndromes: pre-Golgi and Golgi disorders? Glycobiology 3, 423-8	
21.		Jaeken, J., et al (1994). Carbohydrate deficient glycoprotein syndrome type II: a deficiency in Golgi localised N-acetyl-glucosaminyltransferase II. Arch Dis Child 71, 123-7	
22.		Jones, T. A., et al (1991). Improved methods for building protein models in electron density maps and the location of errors in these models. Acta Crystallographica A47, 110-119	
23.		Kleywegt, G. J., et al (1996). Efficient rebuilding of protein structures. Acta Crystallographica D52, 829-832	
24.		Kornfeld, R., et al (1980). . In The Biochemistry of Glycoproteins and Proteoglycans, W. J. Lennarz, ed.: Plenum Press), pp. 24-25	
25.	✓	La Fortelle, E., et al (1997). Maximum-Likelihood Heavy-Atom Parameter Refinement in the MIR and MAD Methods. Methods in Enzymology 276, 472-494	
26.	✓	McCarter, J. D., et al (1994). Mechanisms of enzymatic glycoside hydrolysis. Curr Opin Struct Biol 4, 885-92	
27.	✓	Merritt, E. A., et al (1994). Raster3D Version 2.0, a Program for Photorealistic Molecular Graphics. Acta Crystallographica D50, 869-873	
28.	✓	Metzler, M., et al (1994). Complex asparagine-linked oligosaccharides are required for morphogenic events during post-implantation development. Embo J 13, 2056-65	
29.	✓	Moller, G., et al (1992). Control of glycoprotein synthesis: substrate specificity of rat liver UDP-GlcNAc:Man alpha 3R beta 2-N- acetylglucosaminyltransferase I using synthetic substrate analogues. Glycoconj J 9, 180-90	
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30	✓	Morera, S., et al (1999). T4 phage beta-glucosyltransferase: substrate binding and proposed catalytic mechanism. <i>J Mol Biol</i> 292, 717-30	
31	✓	Murzin, A. G., et al (1995). SCOP: a structural classification of proteins database for the investigation of sequences and structures. <i>J Mol Biol</i> 247, 536-40	
32	✓	Narasimhan, S., et al (1977). Control of glycoprotein synthesis. Lectin-resistant mutant containing only one of two distinct N-acetylglucosaminyltransferase activities present in wild type Chinese hamster ovary cells. <i>J Biol Chem</i> 252, 3926-33	
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34	✓	Otwinski, Z., et al (1997). Processing of X-ray Diffraction Data Collected in Oscillation Mode. <i>Methods in Enzymology</i> 276, 307-326	
35	✓	Petrova, P., et al (1999). Potential Energy Hypersurfaces of Nucleotide Sugars: Ab Initio Calculations, Force-Field Parameterization, and Exploration of the Flexibility. <i>J Am Chem Soc</i> 121, 5535-47.	
36	✓	Reck, F., et al (1995). Synthetic substrate analogues for UDP-GlcNAc: Man alpha 1-3R beta 1-2-N- acetylglucosaminyltransferase I. Substrate specificity and inhibitors for the enzyme. <i>Glycoconj J</i> 12, 747-54	
37	✓	Reck, F., et al (1994). Synthesis of tetrasaccharide analogues of the N-glycan substrate of beta-(1→2)-N-acetylglucosaminyltransferase II using trisaccharide precursors and recombinant beta-(1→2)-N-acetylglucosaminyltransferase I. <i>Carbohydr Res</i> 259, 93-101	
38	✓	Sarkar, M., et al (1998). Removal of 106 amino acids from the N-terminus of UDP-GlcNAc: alpha-3-D- mannoside beta-1,2-N- acetylglucosaminyltransferase I does not inactivate the enzyme. <i>Glycoconj J</i> 15, 193-7	
39	✓	Schachter, H. (1986). Biosynthetic controls that determine the branching and microheterogeneity of protein-bound oligosaccharides. <i>Biochem Cell Biol</i> 64, 163-81	
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43	✓	Tan, J., et al (1996). Mutations in the MGAT2 gene controlling complex N-glycan synthesis cause carbohydrate-deficient glycoprotein syndrome type II, an autosomal recessive disease with defective brain development. <i>Am J Hum Genet</i> 59, 810-7.	
44	✓	Terwilliger, T. C., et al (1999). Automated MAD and MIR structure solution. <i>Acta Crystallographica D55</i> , 849-61	
45	✓	Vrieling, A., et al (1994). Crystal structure of the DNA modifying enzyme beta-glucosyltransferase in the presence and absence of the substrate uridine diphosphoglucose. <i>Embo J</i> 13, 3413-22	
46	✓	Vyas, N. K. (1991). Atomic features of protein-carbohydrate interactions. <i>Curr Opin Struct Biol</i> 1, 732-40	
47	✓	Wiggins, C. A., et al (1998). Activity of the yeast MN1 alpha-1,3-mannosyltransferase requires a motif conserved in many other families of glycosyltransferases. <i>Proc Natl Acad Sci U S A</i> 95, 7945-50	
48	✓	Ullman, C. et al (1997). A classification of nucleotide-diphospho-sugar glycosyltransferases based on amino acid sequence similarities, <i>Biochemical Journal</i> , Vol. 326, pages 929-941	
49	✓	Kuntz, Irwin, et al (1994) Structure Based Molecular Design, American Chemical Society, Vol 27, No. 5, pages 117-123	
50	✓	Gschwend, D.A., et al (1996) Molecular Docking Towards Drug Discovery, <i>Journal of Molecular Recognition</i> , Vol 9, pages 175-186	
51	✓	Sarkar, (1994) Expression of recombinant rabbit UDP-GlcNAc:alpha-c-D-mannoside beta-1,2N-acetylglucosaminyltransferase I catalytic domain in Sf9 insect cells, <i>Database Biosis Online, Biosciences Information Service</i> , Vol 11, No. 3, pages 204-209	

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